AMENDMENTS TO THE CLAIMS

- (presently amended) A recombinant fusion enzyme <u>Vitreoscilla hemoglobin-D-amino acid oxidaseVHb-DAAO</u>, expressible from a recombinant fusion gene consisting of a gene encoding a bacterial hemoglobin and a gene encoding a D-amino acid oxidase.
- (unchanged) A recombinant fusion enzyme bacterial hemoglobin-D-amino acid oxidase as set forth in claim 1, wherein said bacterial hemoglobin contains a full or a partial length of a *Vitreoscilla* hemoglobin peptide sequence or its functionality analogous peptide sequence.

Claims 3-5 have been cancelled without prejudice to the subject matter therein.

- 6. (new) The recombinant fusion enzyme as recited in claim 1, wherein the biological functions of both proteins are maintained.
- 7. (new) The recombinant fusion enzyme as recited in claim 1, wherein an oligonucleotide is not used for linking.
- (new) The recombinant fusion enzyme as recited in claim 1, wherein a peptide is not used for linking.
- (new) An artificial fusion enzyme of VHb and D-amino acid oxidase,
 expressed as a single polypeptide, consisting of a PCR linked gene of VHb and gene of D-amino acid oxidase.